

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1584577

Luminaire Tested: 14CZSP-A-42-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-42-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

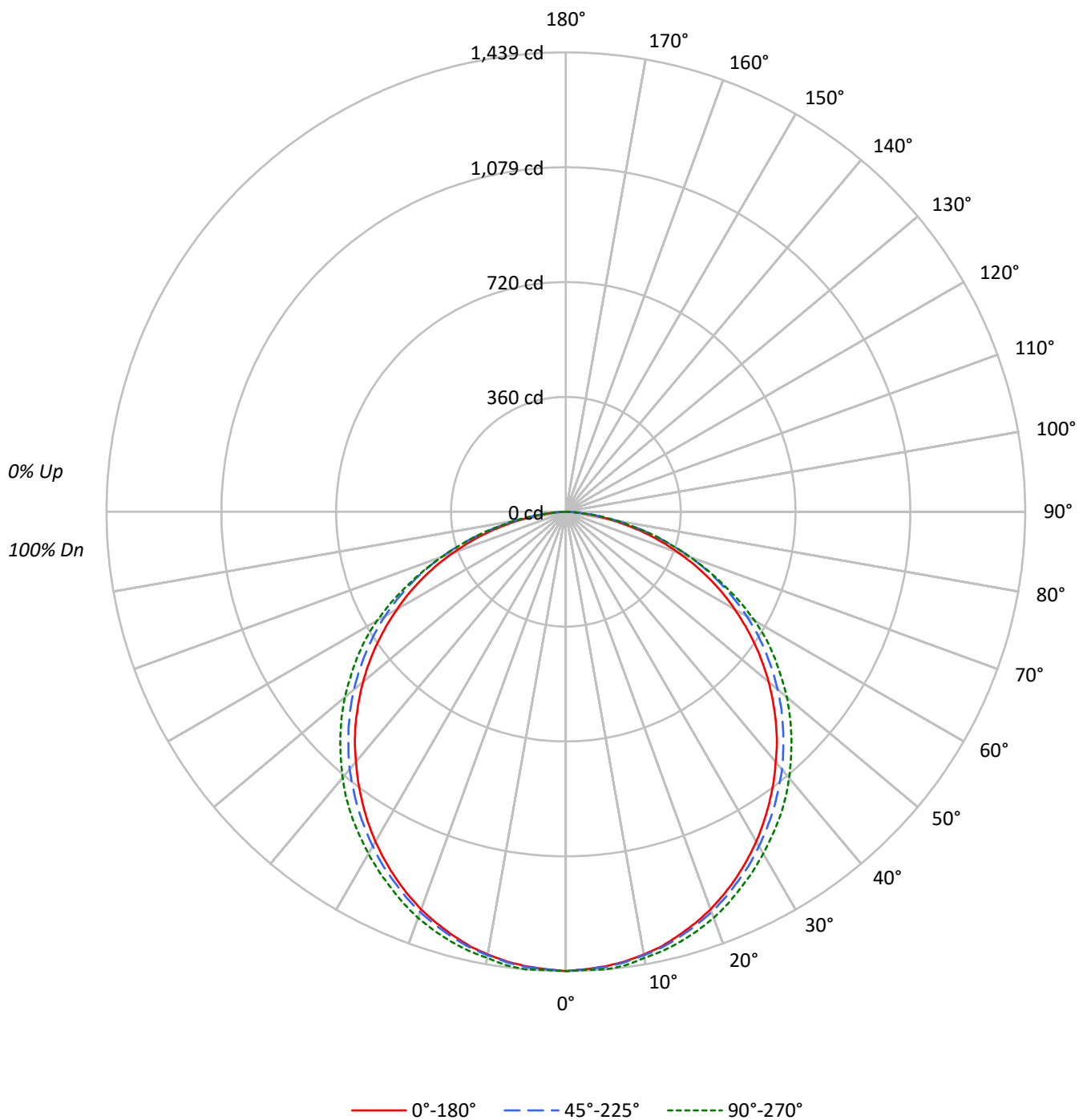
Lumens per Lamp: N/A
Luminaire Lumens: 4152.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	53		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4848	4848	4848
5°	4834	4842	4867
10°	4818	4826	4856
15°	4788	4809	4861
20°	4754	4785	4855
25°	4700	4746	4828
30°	4641	4708	4813
35°	4572	4668	4805
40°	4499	4635	4786
45°	4435	4587	4763
50°	4349	4543	4736
55°	4245	4484	4693
60°	4114	4413	4604
65°	3955	4289	4377
70°	3711	4075	4075
75°	3333	3701	3718
80°	2748	3130	3130
85°	1902	2285	1999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4763 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.3
10°-20°	390.4	9.4
20°-30°	590.8	14.2
30°-40°	713.2	17.2
40°-50°	745.2	17.9
50°-60°	682.6	16.4
60°-70°	526.3	12.7
70°-80°	296.9	7.2
80°-90°	70.3	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1117.5	26.9
0°-40°	1830.7	44.1
0°-60°	3258.5	78.5
0°-90°	4152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1429	1439	1432	1434	1439	136
15°	1372	1381	1379	1390	1393	387
25°	1264	1275	1276	1294	1299	582
35°	1112	1126	1135	1160	1168	695
45°	931	947	963	991	1000	717
55°	723	741	763	792	799	646
65°	496	512	538	556	549	490
75°	256	276	284	292	286	271
85°	49	55	59	63	52	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.9	1438.9	1438.9	1438.9	1438.9
2.5°	1434.0	1443.9	1434.0	1438.9	1436.5
5°	1429.1	1438.9	1431.6	1434.0	1438.9
7.5°	1420.5	1430.3	1422.9	1426.6	1432.8
10°	1408.2	1418.0	1410.6	1416.8	1419.3
12.5°	1393.4	1402.0	1397.1	1404.5	1408.2
15°	1372.5	1381.1	1378.6	1389.7	1393.4
17.5°	1350.3	1360.2	1357.7	1371.2	1374.9
20°	1325.7	1334.3	1334.3	1346.6	1354.0
22.5°	1296.2	1306.0	1307.2	1320.8	1328.2
25°	1264.2	1275.2	1276.5	1293.7	1298.6
27.5°	1229.7	1240.8	1245.7	1264.2	1269.1
30°	1192.8	1203.8	1210.0	1230.9	1237.1
32.5°	1153.4	1166.9	1173.1	1196.5	1202.6
35°	1111.5	1126.3	1134.9	1159.5	1168.1
37.5°	1068.4	1083.2	1094.3	1120.1	1130.0
40°	1022.9	1038.9	1053.7	1079.5	1088.1
42.5°	978.6	994.6	1008.1	1035.2	1043.8
45°	930.6	946.6	962.6	990.9	999.5
47.5°	880.1	897.3	915.8	941.7	952.7
50°	829.6	846.9	866.6	893.7	903.5
52.5°	776.7	795.2	814.9	843.2	850.6
55°	722.6	741.0	763.2	791.5	798.9
57.5°	667.2	686.9	710.2	737.3	744.7
60°	610.5	630.2	654.9	680.7	683.2
62.5°	555.1	572.4	597.0	621.6	617.9
65°	496.1	512.1	537.9	556.4	549.0
67.5°	437.0	454.2	477.6	491.1	481.3
70°	376.7	395.1	413.6	423.4	413.6
72.5°	316.3	336.0	349.6	355.7	347.1
75°	256.0	275.7	284.3	291.7	285.6
77.5°	198.2	216.6	220.3	229.0	220.3
80°	141.6	158.8	161.3	169.9	161.3
82.5°	91.1	102.2	107.1	114.5	105.9
85°	49.2	55.4	59.1	62.8	51.7
87.5°	17.2	19.7	17.2	14.8	6.2
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.20	18.85	17.56	19.16	19.48	17.74	19.39	18.11	19.71	20.02
	3H	18.99	20.48	19.36	20.80	21.16	19.55	21.04	19.92	21.37	21.73
	4H	19.62	21.03	20.02	21.38	21.75	20.19	21.60	20.59	21.95	22.32
	6H	20.05	21.35	20.46	21.72	22.11	20.63	21.94	21.04	22.30	22.69
	8H	20.16	21.40	20.58	21.79	22.19	20.76	22.00	21.18	22.39	22.79
	12H	20.21	21.41	20.64	21.79	22.22	20.81	22.01	21.24	22.39	22.82
4H	2H	17.92	19.33	18.32	19.68	20.05	18.35	19.76	18.75	20.10	20.48
	3H	19.93	21.11	20.34	21.51	21.91	20.39	21.57	20.79	21.96	22.36
	4H	20.70	21.77	21.13	22.18	22.61	21.17	22.23	21.60	22.65	23.08
	6H	21.24	22.18	21.70	22.62	23.07	21.73	22.67	22.19	23.11	23.56
	8H	21.39	22.26	21.85	22.70	23.17	21.90	22.77	22.36	23.21	23.68
	12H	21.47	22.26	21.95	22.73	23.20	21.99	22.78	22.47	23.25	23.72
8H	4H	21.04	21.91	21.50	22.36	22.82	21.45	22.33	21.91	22.77	23.23
	6H	21.70	22.43	22.19	22.91	23.39	22.14	22.86	22.63	23.35	23.82
	8H	21.91	22.56	22.42	23.06	23.55	22.37	23.02	22.88	23.52	24.01
	12H	22.04	22.62	22.55	23.11	23.67	22.52	23.09	23.03	23.58	24.14
12H	4H	21.08	21.86	21.56	22.34	22.81	21.48	22.26	21.96	22.74	23.21
	6H	21.76	22.41	22.26	22.91	23.40	22.18	22.83	22.68	23.33	23.82
	8H	22.01	22.59	22.52	23.08	23.64	22.46	23.04	22.97	23.53	24.09